

Patent Application of: Lamar M. Auman, Douglas J. Love and Brad L. Bachelor

INFORMATION DISCLOSURE STATEMENT

- A) U. S. Patent 5,153,371 teaches a flying weapon, such as a grenade, that has a spindle and is arranged to travel in a given direction. A ribbon is attached to the spindle and is formed into a loop for trailing behind. A pair of rectangular flaps is secured to the outside of the ribbon to provide the drag and torque that turns the spindle, ultimately arming the weapon.
- B) U. S. Patent 6,530,324 B1 teaches a munition that incorporates a fuze mechanism adapted to prevent momentary disarming of the mechanism once the same is placed in an armed state. Upon deployment, a drag ribbon attached to a threaded portion of the arming screw encounters vibratory and spinning motions as the munition falls toward the target. This dynamic drag ribbon motion causes the firing pin to be aligned with the detonator, ultimately arming the munition.

Unlike prior art, Applicants' invention teaches the use of a nylon ring, in combination with a plurality of nylon ribbons attached thereto, that has the simultaneous capabilities of locking the arming mechanism for safety prior to deployment and providing flight stability to the flying weapon upon deployment and arming.



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